PATENT ABSTRACTS OF JAPAN

(11)Publication number :   2000-187160

(43)Date of publication of application : 04.07.2000

(51)Int.Cl.   G02B 15/167
                               G02B 13/18

(21)Application number : 10-365721   (71)Applicant : ASAHI OPTICAL CO LTD

(22)Date of filing :   22.12.1998   (72)Inventor : OZAKI HIROYASU
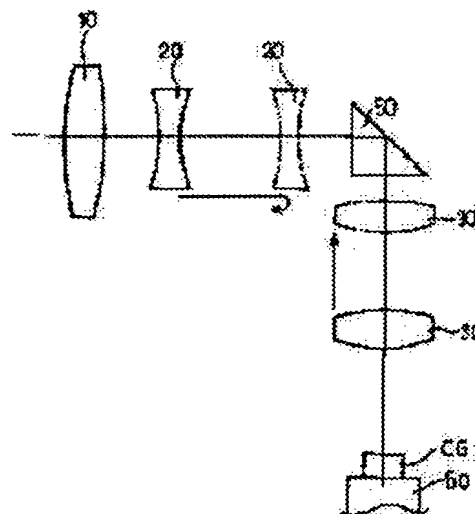   ITO TAKAYUKI

(54) ZOOM LENS SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To make a camera using a zoom lens small in size, especially, size in the depth direction.

SOLUTION: In this zoom lens system constituted of plural lens groups, a prism 50 folding an optical axis is arranged between the lens groups which are moved in the case of zooming. The system satisfies a following conditional expression (1). (1) $0.8 < Dmin/2y < 1.5$. In this expression, $Dmin = Da + (Lp/Np) + Db$, where Da is the distance obtained when the distance between the lens group just before the prism and the prism is the shortest, Lp is thickness on the optical axis of the prism, Np is the refractive index of the prism, Db is a distance obtained when a distance between the prism and the lens group just behind the prism is the shortest, 2y is the image size of an optical system ($y = f \times tanW$, f is the focal distance of an entire system and W is a half viewing angle).

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]